

**Practice**

For use with pages 247–252

**Solve the equation. Check your solution.**

1.  $\frac{5}{8}x = 30$

2.  $\frac{7}{11}x = 14$

3.  $-\frac{7}{12}x = 14$

4.  $28 = \frac{14}{15}x$

5.  $-\frac{5}{6}x = 20$

6.  $-24 = -\frac{12}{19}x$

7.  $\frac{7}{11}x = \frac{4}{11}$

8.  $\frac{4}{5}x = \frac{7}{5}$

9.  $\frac{9}{10}x = \frac{2}{5}$

10.  $-\frac{3}{4}x = \frac{11}{32}$

11.  $\frac{3}{14} = -\frac{11}{21}x$

12.  $-\frac{7}{13}x = \frac{5}{26}$

**Solve the equation. Check your solution.**

13.  $\frac{1}{2}x + 9 = 36$

14.  $\frac{4}{7}x + 8 = 28$

15.  $6 = \frac{1}{2}x - \frac{1}{4}$

16.  $-\frac{2}{3}x + (-10) = 14$

17.  $32 = 16 - \frac{1}{2}x$

18.  $29 = \frac{9}{11}x + 11$

19.  $-\frac{14}{17}x + \frac{13}{17} = \frac{12}{17}$

20.  $\frac{5}{11}x + \frac{4}{11} = \frac{3}{11}$

21.  $\frac{8}{19} = -\frac{10}{19}x - \frac{9}{19}$

22.  $\frac{2}{3}x + \frac{5}{9} = \frac{4}{9}$

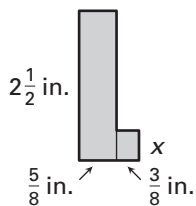
23.  $\frac{1}{2} = \frac{9}{14}x - \frac{4}{7}$

24.  $\frac{8}{21} = -\frac{10}{21}x + \frac{3}{7}$

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25. The figure is composed of two rectangles. The area of the figure is  $1\frac{3}{4}$  square inches.



- a. Find the area of the larger rectangle.
- b. Write an expression for the area of the smaller rectangle.
- c. Write an equation relating the sum of the areas in parts (a) and (b) to the total area of the figure. Solve the equation to find the value of  $x$ .
26. The weight of a bull calf is 388 kilograms. If its weight increases at a rate of  $1\frac{2}{5}$  kilograms per day, how long it will take the bull calf to reach a weight of 500 kilograms?